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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/780,206	02/09/2001	Michael Fritz	RDID0028US	5556
20306	7590 08/30/2004		EXAMINER	
	LL BOEHNEN HULE	CHUNDURU, SURYAPRABHA		
300 S. WACK 32ND FLOOI		ART UNIT	PAPER NUMBER	
CHICAGO, I			1637	

DATE MAILED: 08/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)			
Office Action Summary		09/780,20	06	FRITZ ET AL.			
		Examiner		Art Unit			
		Suryaprab	ha Chunduru	1637			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
THE - Exte after - If the - If NO - Failu	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comn e period for reply specified above is less than thirty (3 D period for reply is specified above, the maximum st- ure to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no evenunication. 10) days, a reply within the state attuory period will apply and will apply a	ent, however, may a reply be tir utory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status							
1)[[Responsive to communication(s) file	ed on <u>11 May 2004</u> .					
2a)□		2b)⊠ This action is n	on-final.				
3)	The state of the secretary of the secret						
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims	•					
-	Claim(s) <u>36-41 and 68-76</u> is/are per	nding in the applicatio	n.				
7/23	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	5) Claim(s) is/are allowed.						
, —	Claim(s) is/are rejected.						
-	Claim(s) is/are objected to.						
8)	8) Claim(s) are subject to restriction and/or election requirement.						
Applicat	tion Papers						
9)□	The specification is objected to by the	ne Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
1) ⊠ Not 2)	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review ((PTO-948)	Paper No(s)/Mail [Date			
3) 😿 Info	rmation Disclosure Statement(s) (PTO-1449 o		5) Notice of Informal 6) Other:	Patent Application (PTO-152)			

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DETAILED ACTION

1. Applicants' response to the office action filed on May 11 2004 has been entered.

2. The IDS filed on December 29, 2003 and the Supplemental IDS filed on April 28, 2004 have

been entered.

3. Claims 1-35, 42-67 are cancelled. Claims 36-41, 68-76 are pending.

New Grounds of rejection

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 69, 72-76 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 69 and 72 are indefinite over the recitation of "capable of transporting / capable of binding" because capability is a latent characteristic and the claims do not set forth the criteria by which to determine capability. The meets and bounds of the claims are unclear. That is, it is not clear whether the recited transport mechanism have the potential to transport the sample or do in fact transport the sample and it is not clear whether the recited surface has potential to bind nucleic acids or do in fact bind nucleic acids. Amendment of the claim to read, for example, "which transports / which binds" would obviate this rejection.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 36-41, 68-76 are rejected under 35 U.S.C. 102(b) as being anticipated by Zaun et al. (USPN. 5,415,839).

Zaun et al. teach an apparatus of claim 36, 72, for detecting nucleic acids in a sample comprising

- (a) a binding space for binding test sample comprising nucleic acids (see (microparticle beads in the bottom of the reaction chamber (see col. 8, line 20-32);
- (b) an amplification space (reaction space), wherein at least a part of the amplification space is identical to a part of the binding space (see col. 7, line 31-50, col. 8, line 6-32);
 - (c) a detection space for detecting the nucleic acids (see col. 8, line 33-41).

With regard to claim 37, 73, Zaun et al. teach that the apparatus comprises reagents for purifying (reagents for test sample), amplifying (amplification reagents) (see col. 7, line 17-26, 53-57);

With regard to claim 38, Zaun et al. teach that the detection space comprises a part of at least one of the amplification space (open end of the reaction chamber connects to the detection chamber, indicating that the detection chamber comprises a part of the a reaction chamber) and a binding space (see col. 8, line 34-41, col. 9, line 40-67);

With regard to claim 39, 74, Zaun et al. teach that the binding space and the amplification space comprises a capillary space (see col. 9, line 40, 67, col. 8, line 1-32);

With regard to claim 41, 76, Zaun et al. also teach that the capillary space is a glass or polysterene (see col. 8, line 21-32, col. 9, line 49-67);

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With regard to claim 69, Zaun et al. teach that the apparatus further comprises a transport mechanism to transport the sample and reagents through the said spaces (see col. 7, lines 8, line 42-59, col. 8, line 49-57);

With regard to claims 70-71, Zaun et al. teach that the binding space comprises an inner surface for binding nucleic acids (see col. 8, lines 20-32);

With regard to claims 40, 68, 75, Zaun et al. teach that the capillary reaction vessel is surrounded by heatable metal layer (heat conducting material surrounding each reaction chamber as a ring) (see col. 12, line 5-40).

Thus the disclosure of Zaun et al. meets the limitations in the instant claims.

Response to arguments

- 6. Applicants' arguments to the office action are fully considered and found persuasive in part.
- 7. With regard to the IDS, Applicants' arguments are fully considered and the IDSs have been entered and considered.
- 8. With regard to the translation of the German language priority document, Applicants' arguments have been fully considered. Examiner reiterates that the instant application would not get the foreign priority date based on the non-submission of the translation to the German document and any intervening art would be applicable.
- 9. With regard to the rejection made in the previous office action under 35 USC 102(e), Applicants' arguments are fully considered and the rejection is withdrawn in view of the arguments.

Conclusion

No claims are allowable.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suryaprabha Chunduru whose telephone number is 571-272-0783. The examiner can normally be reached on 8.30A.M. - 4.30P.M, Mon - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and - for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Suryaprabha Chunduru August 24, 2004

JÉHANNE SITTÖN PRIMARY EXAMINER